# Performance Data Sheet

## AWF5522EXN

## General Information

| | | | |
|---|---|---|---|
| **Model** | AWF5522EXN | **Refrigerant** | R-22 |
| **Test Condition** | ARI | **Performance Test Voltage** | 230V ~ 60HZ |
| **Return Gas** | 18.3°C (65°F) RETURN GAS | **Motor Type** | PSC |

## Performance Information

| Evap Temp (°F) | | Condensing Temperature (°F) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 80 | 90 | 100 | 110 | 120 | 130 | 140 |
| -15 | Btu/h | 6150 | 4830 | | | | | |
| | Watts | 993 | 954 | | | | | |
| | Amps | 4.01 | 3.92 | | | | | |
| | Lb/h | 79.4 | 64.9 | | | | | |
| -10 | Btu/h | 7630 | 6280 | 4970 | | | | |
| | Watts | 1050 | 1020 | 999 | | | | |
| | Amps | 4.34 | 4.30 | 4.27 | | | | |
| | Lb/h | 97.9 | 83.8 | 69.2 | | | | |
| -5 | Btu/h | 9210 | 7830 | 6480 | 5170 | | | |
| | Watts | 1100 | 1080 | 1080 | 1070 | | | |
| | Amps | 4.64 | 4.65 | 4.67 | 4.67 | | | |
| | Lb/h | 117 | 104 | 89.3 | 74.7 | | | |
| 0 | Btu/h | 10900 | 9490 | 8080 | 6720 | 5420 | | |
| | Watts | 1150 | 1150 | 1150 | 1160 | 1160 | | |
| | Amps | 4.91 | 4.97 | 5.04 | 5.09 | 5.10 | | |
| | Lb/h | 138 | 125 | 111 | 96.0 | 81.3 | | |
| 5 | Btu/h | 12800 | 11300 | 9810 | 8370 | 6990 | | |
| | Watts | 1190 | 1210 | 1230 | 1250 | 1260 | | |
| | Amps | 5.14 | 5.26 | 5.39 | 5.49 | 5.55 | | |
| | Lb/h | 161 | 147 | 133 | 119 | 104 | | |
| 10 | Btu/h | 14700 | 13200 | 11700 | 10100 | 8680 | 7290 | 6010 |
| | Watts | 1230 | 1260 | 1300 | 1340 | 1360 | 1370 | 1360 |
| | Amps | 5.34 | 5.52 | 5.71 | 5.87 | 5.99 | 6.04 | 5.98 |
| | Lb/h | 184 | 171 | 157 | 143 | 128 | 113 | 97.9 |
| 15 | Btu/h | 16900 | 15300 | 13700 | 12100 | 10500 | 9000 | 7600 |
| | Watts | 1260 | 1320 | 1370 | 1420 | 1460 | 1490 | 1490 |
| | Amps | 5.50 | 5.75 | 6.00 | 6.23 | 6.41 | 6.52 | 6.52 |
| | Lb/h | 210 | 197 | 183 | 168 | 153 | 138 | 123 |
| 20 | Btu/h | 19200 | 17500 | 15800 | 14100 | 12400 | 10800 | 9310 |
| | Watts | 1290 | 1360 | 1430 | 1500 | 1560 | 1600 | 1610 |
| | Amps | 5.62 | 5.94 | 6.26 | 6.56 | 6.81 | 6.99 | 7.05 |
| | Lb/h | 237 | 224 | 210 | 196 | 180 | 165 | 149 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **25** | Btu/h | 21700 | 19900 | 18100 | 16300 | 14500 | 12800 | 11200 |
| | Watts | 1310 | 1400 | 1490 | 1570 | 1650 | 1700 | 1740 |
| | Amps | 5.70 | 6.09 | 6.49 | 6.86 | 7.19 | 7.43 | 7.57 |
| | Lb/h | 266 | 254 | 240 | 225 | 209 | 193 | 177 |
| **30** | Btu/h | 24500 | 22600 | 20600 | 18700 | 16800 | 14900 | 13100 |
| | Watts | 1320 | 1430 | 1540 | 1640 | 1730 | 1810 | 1860 |
| | Amps | 5.74 | 6.21 | 6.69 | 7.14 | 7.54 | 7.86 | 8.07 |
| | Lb/h | 298 | 285 | 271 | 256 | 240 | 224 | 208 |
| **35** | Btu/h | 27400 | 25400 | 23300 | 21300 | 19200 | 17200 | 15300 |
| | Watts | 1320 | 1450 | 1580 | 1700 | 1810 | 1900 | 1970 |
| | Amps | 5.73 | 6.29 | 6.85 | 7.38 | 7.86 | 8.26 | 8.56 |
| | Lb/h | 332 | 319 | 305 | 290 | 273 | 257 | 240 |
| **40** | Btu/h | 30600 | 28400 | 26300 | 24100 | 21900 | 19700 | 17600 |
| | Watts | 1300 | 1460 | 1610 | 1750 | 1880 | 1990 | 2080 |
| | Amps | 5.68 | 6.32 | 6.97 | 7.59 | 8.16 | 8.64 | 9.02 |
| | Lb/h | 368 | 355 | 341 | 325 | 309 | 292 | 274 |
| **45** | Btu/h | 34000 | 31700 | 29400 | 27100 | 24700 | 22400 | 20100 |
| | Watts | 1280 | 1450 | 1630 | 1790 | 1950 | 2070 | 2180 |
| | Amps | 5.58 | 6.32 | 7.05 | 7.77 | 8.42 | 9.00 | 9.47 |
| | Lb/h | 407 | 394 | 379 | 364 | 347 | 329 | 311 |
| **50** | Btu/h | 37700 | 35300 | 32800 | 30300 | 27800 | 25300 | 22800 |
| | Watts | 1240 | 1440 | 1640 | 1830 | 2000 | 2150 | 2270 |
| | Amps | 5.43 | 6.27 | 7.10 | 7.91 | 8.66 | 9.33 | 9.89 |
| | Lb/h | 448 | 435 | 421 | 404 | 387 | 369 | 350 |
| **55** | Btu/h | 41600 | 39000 | 36400 | 33800 | 31100 | 28400 | 25800 |
| | Watts | 1180 | 1410 | 1630 | 1840 | 2040 | 2210 | 2350 |
| | Amps | 5.23 | 6.17 | 7.10 | 8.01 | 8.86 | 9.63 | 10.3 |
| | Lb/h | 493 | 480 | 465 | 448 | 430 | 412 | 392 |

| COEFFICIENTS | CAPACITY | POWER | CURRENT | MASS FLOW |
|---|---|---|---|---|
| C1 | 1.961052E+04 | 2.025971E+03 | 8.042600E+00 | 1.934474E+02 |
| C2 | 3.767569E+02 | -2.149493E+01 | -4.318103E-02 | 3.163577E+00 |
| C3 | -4.725772E+01 | -2.808856E+01 | -1.125668E-01 | 1.946329E-01 |
| C4 | 4.241679E+00 | -2.272085E-01 | -1.397120E-03 | 3.420265E-02 |
| C5 | 3.385173E-01 | 4.572495E-01 | 1.232290E-03 | 2.242422E-02 |
| C6 | -1.121165E+00 | 2.929367E-01 | 1.284818E-03 | -1.434428E-02 |
| C7 | 1.831488E-02 | -1.512351E-03 | -2.213093E-06 | 2.009377E-04 |
| C8 | -1.925178E-02 | 1.903981E-03 | 8.905262E-06 | -7.879553E-05 |
| C9 | -7.804184E-03 | -8.946338E-04 | -7.993714E-07 | -1.025472E-04 |
| C10 | 4.411039E-03 | -9.925674E-04 | -4.594281E-06 | 4.114031E-05 |

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature